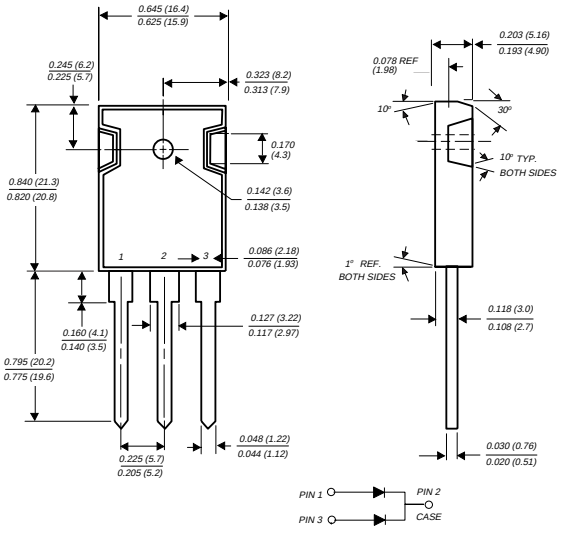
查询SBL2030PT供应商

SBL2030PT AND SBL2040PT

SCHOTTKY RECTIFIER

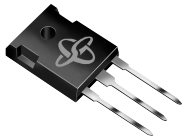
***Reverse Voltage** - 30 and 40 Volts* ***Forward Current** - 20.0 Amperes*

TO-247AD



Dimensions in inches and (millimeters)

FEATURES



- Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- Dual rectifier construction, positive center-tap
- Guardring for overvoltage protection
- High temperature soldering guaranteed: 250°C/10 seconds, 0.17" (4.3mm) from case

MECHANICAL DATA

Case: JEDEC TO-247AD molded plastic body
Terminals: Lead solderable per MIL-STD-750, Method 2026
Polarity: As marked
Mounting Position: Any
Mounting Torque: 10 in. - lbs. max.
Weight: 0.2 ounce, 5.6 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	*SBL2030PT*	*SBL2040PT*	*UNITS*
Maximum repetitive peak reverse voltage	V_{RRM}	30	40	Volts
Maximum RMS voltage	V_{RMS}	21	28	Volts
Maximum DC blocking voltage	V_{DC}	30	40	Volts
Maximum average forward rectified current at T_C=105°C	$I_{(AV)}$	20.0		Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	250.0		Amps
Maximum instantaneous forward voltage per leg at 10.0A (NOTE 1)	V_F	0.55		Volts
Maximum instantaneous current at rated DC blocking voltage per leg (NOTE 1)	T_C=25°C T_C=100°C	I_R	1.0 50.0	mA
Typical thermal resistance per leg (NOTE 2)	$R_{\Theta JC}$	1.5		°C/W
Operating junction and storage temperature range	T_J, T_{STG}	-40 to +125		°C

NOTES:
(1) Pulse test: 300μs pulse width, 1% duty cyle
(2) Thermal resistance from junction to case per leg

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RATINGS AND CHARACTERISTIC CURVES SBL2030PT AND SBL2040PT

FIG. 1 - FORWARD CURRENT DERATING CURVE

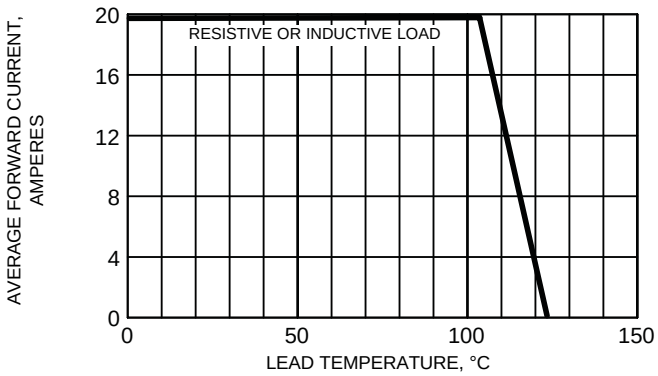


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

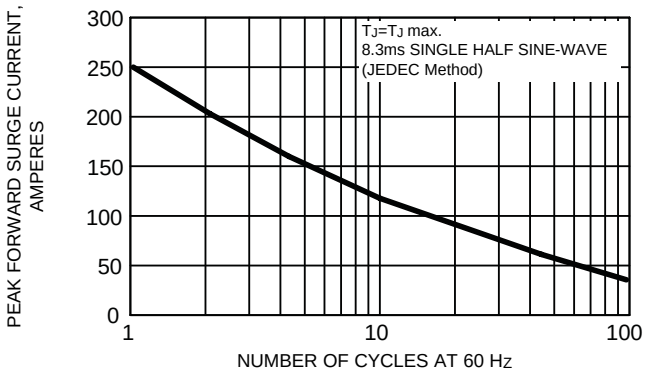


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

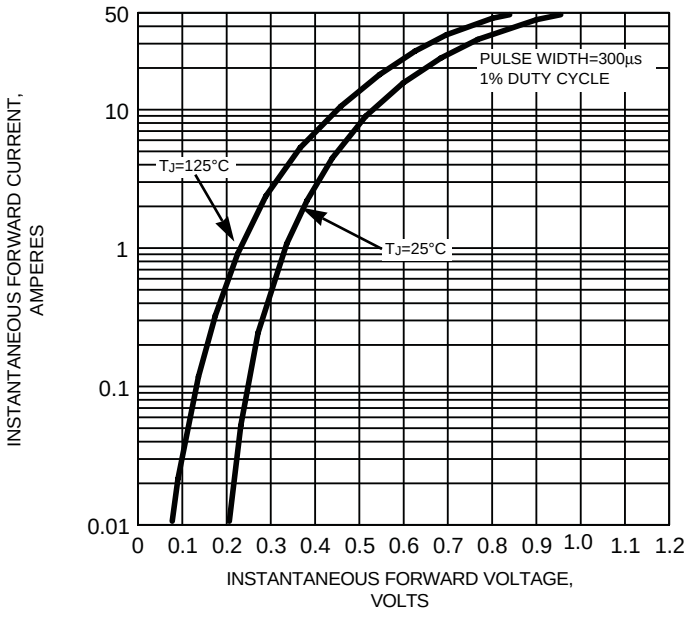


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

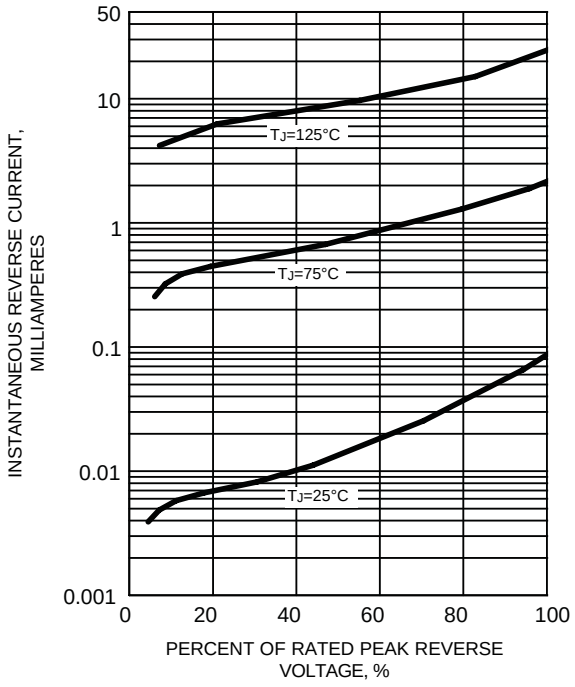


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

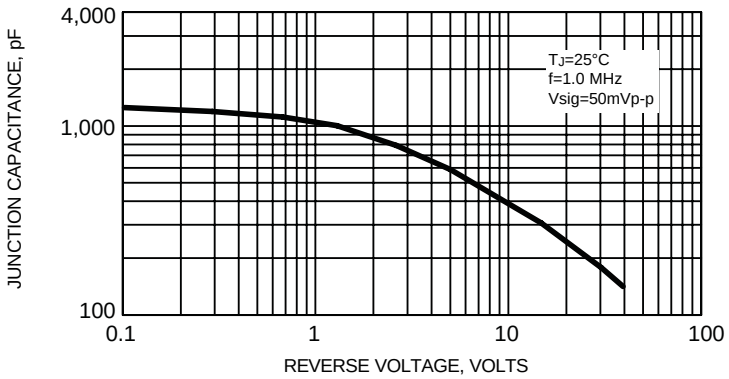
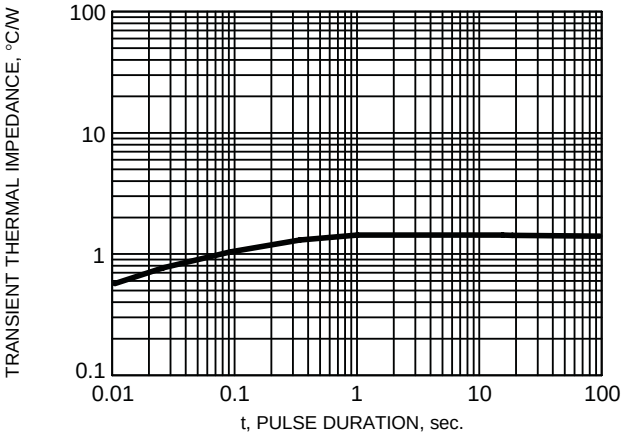


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG



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